Author index of Volume 107*

 Aliabadi, S.K. and T.E. Tezduyar, Space-time finite element computation of compressible flows involving moving boundaries and interfaces Aluru, N.R., A. Raefsky, P.M. Pinsky, K.H. Law, R.J.G. Goossens 	(1-2) 209-223
and R.W. Dutton, A finite element formulation for the hydrodynamic semiconductor device equations Araya, R.A. and G.N. Gatica, A new nonconforming Galerkin scheme for the Stokes problem: Partially circumventing the discrete	(1-2) 269-298
Babuška-Brezzi condition Austin, M.A. and B.K. Voon, Structural optimization in a distributed	(1-2) 193-208
computing environment Avello, A., J.M. Jiménez, E. Bayo and J.G. de Jalón, A simple and	(1-2) 173-192
highly parallelizable method for real-time dynamic simulation based on velocity transformations	(3) 313–339
Bayo, E., see Avello, A.	(3) 313–339
Briassoulis, D., The four-node C^0 Mindlin plate bending element reformulated, Part I: Formulation	(1-2) 23- 43
Briassoulis, D., The four-node C^0 Mindlin plate bending element reformulated, Part II. Verification	(1-2) 45-100
Cheng, JH., Adaptive grid optimization for structural analysis – Geometry-based approach	(1-2) 1- 22
Dutton, R.W., see Aluru, N.R.	(1-2) 269-298
French, D.A. and L.B. Wahlbin, On the numerical approximation of an evolution problem in nonlinear viscoelasticity French, D.A., A space-time finite element method for the wave	(1-2) 101-116
equation	(1-2) 145-157
García de Jalón, J.G., see Avello, A. Gatica, G.N., see Araya, R.A. Goossens, R.J.G., see Aluru, N.R.	(3) 313–339 (1–2) 193–208 (1–2) 269–298
Gosz, M. and B. Moran, On the formulation and local implementation of a variationally coupled finite element-boundary element method	(1-2) 159-172

^{*} The issue number is given in front of the page numbers.

Haber, R.B., see Vidal, C.A.	(3) 393–431
Ibrahimbegović, A., Mixed finite element with drilling rotations for plane problems in finite elasticity	(1-2) 225-238
Jiménez, J.M., see Avello, A. Johnson, C., Discontinuous Galerkin finite element methods for second	(3) 313–339
order hyperbolic problems	(1–2) 117–129
Law, K.H., see Aluru, N.R. Li, S., see Vu-Quoc, L. Liu, Y. and F.J. Rizzo, Hypersingular boundary integral equations for	(1-2) 269-298 (3) 341-391
radiation and scattering of elastic waves in three dimensions	(1-2) 131-144
Moran, B., see Gosz, M.	(1-2) 159-172
Pang, J.S., see Tin-Loi, F.	(3) 299–312
Pilkey, W.D., see Schramm, U. Pinsky, P.M., see Aluru, N.R.	(1-2) 251-268 (1-2) 269-298
Raefsky, A., see Aluru, N.R. Rizzo, F.J., see Liu, Y.	(1-2) 269-298 (1-2) 131-144
	,
Sansour, C., On the spatial description in elasticity and the Doyle-Ericksen formula	(1-2) 239-249
Schramm, U. and W.D. Pilkey, Structural shape optimization for the torsion problem using direct integration and B-splines	(1-2) 251-268
Tezduyar, T.E., see Aliabadi, S.K.	(1-2) 209-223
Tin-Loi, F. and J.S. Pang, Elastoplastic analysis of structures with nonlinear hardening: A nonlinear complementarity approach	(3) 299–312
Vidal, C.A. and R.B. Haber, Design sensitivity analysis for	(2) 202 121
Voon, B.K., see Austin, M.A.	(3) 393–431 (1–2) 173–192
Vu-Quoc, L. and S. Li, Invariant-conserving finite difference algorithms for the nonlinear Klein-Gordon equation	(3) 341–391
Wahlbin, L.B., see French, D.A.	(1-2) 101-116

Subject index of Volume 107*

Boundary element methods

Hypersingular boundary integral equations for radiation and scattering of elastic waves in three dimensions, Y. Liu and F.J. Rizzo	(1-2) 131-144
On the formulation and local implementation of a variationally coupled finite element-boundary element method, M. Gosz and B. Moran	(1-2) 159-172
Coupled problems	
On the formulation and local implementation of a variationally coupled	

(1-2) 159-172

finite element-boundary element method, M. Gosz and B. Moran

Dynamics

Discontinuous Galerkin finite element methods for second order	
hyperbolic problems, C. Johnson	(1-2) 117–129
A space-time finite element method for the wave equation, D.A.	
French	(1-2) 145–157
Space-time finite element computation of compressible flows involving	
moving boundaries and interfaces, S.K. Aliabadi and T.E. Tezduyar	(1-2) 209–223
A simple and highly parallelizable method for real-time dynamic	
simulation based on velocity transformations, A. Avello,	
J.M. Jiménez, E. Bayo and J. García de Jalón	(3) 313–339

Elasticity

(1-2) 131-144
(1-2) 225–238
(1-2) 239–249
(1-2) 251–268

^{*} The issue number is given in front of the page numbers.

Electronics

A finite element formulation for the hydrodynamic semiconductor device equations, N.R. Aluru, A. Raefsky, P.M. Pinsky, K.H. Law, R.J.G. Goossens and R.W. Dutton	(1-2) 269-298
Finite element and matrix method	
Adaptive grid optimization for structural analysis – Geometry-based approach, JH. Cheng	(1-2) 1- 22
The four-node C^0 Mindlin plate bending element reformulated, Part I: Formulation, D. Briassoulis	(1-2) 23-43
The four-node C^0 Mindlin plate bending element reformulated, Part II. Verification, D. Briassoulis	(1-2) 45-100
On the numerical approximation of an evolution problem in nonlinear viscoelasticity, D.A. French and L.B. Wahlbin	(1-2) 101-116
Discontinuous Galerkin finite element methods for second order hyperbolic problems, C. Johnson	(1-2) 117-129
A space-time finite element method for the wave equation, D.A. French	(1-2) 145-157
On the formulation and local implementation of a variationally coupled finite element-boundary element method, M. Gosz and B. Moran	(1-2) 159-172
A new nonconforming Galerkin scheme for the Stokes problem: Partially circumventing the discrete Babuška-Brezzi condition, R.A.	(1 2) 102 209
Araya and G.N. Gatica Space-time finite element computation of compressible flows involving	(1-2) 193-208
moving boundaries and interfaces, S.K. Aliabadi and T.E. Tezduyar Mixed finite element with drilling rotations for plane problems in finite	(1-2) 209-223
elasticity, A. Ibrahimbegović A finite element formulation for the hydrodynamic semiconductor	(1–2) 225–238
device equations, N.R. Aluru, A. Raefsky, P.M. Pinsky, K.H. Law, R.J.G. Goossens and R.W. Dutton	(1-2) 269-298
Fluid mechanics	
A new nonconforming Galerkin scheme for the Stokes problem: Partially circumventing the discrete Babuška-Brezzi condition,	
R.A. Araya and G.N. Gatica	(1-2) 193-208
Space-time finite element computation of compressible flows involving moving boundaries and interfaces, S.K. Aliabadi and T.E. Tezduyar A finite element formulation for the hydrodynamic semiconductor	(1-2) 209-223
device equations, N.R. Aluru, A. Raefsky, P.M. Pinsky, K.H. Law, R.J.G. Goossens and R.W. Dutton	(1-2) 269-298

Gas dynamics

Space-time finite element computation of compressible flows involving moving boundaries and interfaces, S.K. Aliabadi and T.E. Teżduyar	(1-2) 209-223
General Rayleigh-Ritz and Galerkin techniques	
Discontinuous Galerkin finite element methods for second order hyperbolic problems, C. Johnson A space-time finite element method for the wave equation,	(1-2) 117-129
D.A. French A new nonconforming Galerkin scheme for the Stokes problem:	(1-2) 145-157
Partially circumventing the discrete Babuška-Brezzi condition, R.A. Araya and G.N. Gatica	(1-2) 193-208
Space-time finite element computation of compressible flows involving moving boundaries and interfaces, S.K. Aliabadi and T.E. Tezduyar Mixed finite element with drilling rotations for plane problems in finite	(1-2) 209-223
elasticity, A. Ibrahimbegović	(1-2) 225-238
Modern computer architecture	
Structural optimization in a distributed computing environment, M.A. Austin and B.K. Voon A simple and highly parallelizable method for real-time dynamic	(1-2) 173-192
simulation based on velocity transformations, A. Avello, J.M. Jiménez, E. Bayo and J. García de Jalón	(3) 313–339
Nonlinear mechanics	
Mixed finite element with drilling rotations for plane problems in finite elasticity, A. Ibrahimbegović	(1-2) 225-238
On the spatial description in elasticity and the Doyle-Ericksen formula, C. Sansour	(1-2) 239-249
A simple and highly parallelizable method for real-time dynamic simulation based on velocity transformations, A. Avello, J.M. Jiménez, E. Bayo and J. García de Jalón Invariant-conserving finite difference algorithms for the nonlinear	(3) 313–339
Klein-Gordon equation, L. Vu-Quoc and S. Li	(3) 341–391
Numerical solution procedures	
Elastoplastic analysis of structures with nonlinear hardening: A nonlinear complementarity approach, F. Tin-Loi and J.S. Pang	(3) 299–312
Invariant-conserving finite difference algorithms for the nonlinear Klein-Gordon equation, L. Vu-Quoc and S. Li	(3) 341–391

Optimization

Adaptive grid optimization for structural analysis – Geometry-based approach, J.-H. Cheng (1-2) 1- 22

Optimization and design of structures

- Structural optimization in a distributed computing environment, M.A. Austin and B.K. Voon (1-2) 173-192
- Structural shape optimization for the torsion problem using direct integration and B-splines, U. Schramm and W.D. Pilkey (1-2) 251-268
- Design sensitivity analysis for rate-independent elastoplasticity, C.A. Vidal and R.B. Haber (3) 393-431

Plasticity

- Elastoplastic analysis of structures with nonlinear hardening: A nonlinear complementarity approach, F. Tin-Loi and J.S. Pang (3) 299–312
- Design sensitivity analysis for rate-independent elastoplasticity, C.A. Vidal and R.B. Haber (3) 393-431

Shells and plates

- The four-node C^0 Mindlin plate bending element reformulated, Part I: Formulation, D. Briassoulis (1-2) 23-43
- The four-node C^0 Mindlin plate bending element reformulated, Part II. Verification, D. Briassoulis (1-2) 45-100

Singularity methods

Hypersingular boundary integral equations for radiation and scattering of elastic waves in three dimensions, Y. Liu and F.J. Rizzo (1-2) 131-144

Structural mechanics

- Adaptive grid optimization for structural analysis Geometry-based approach, J.-H. Cheng (1-2) 1- 22
- Elastoplastic analysis of structures with nonlinear hardening: A nonlinear complementarity approach, F. Tin-Loi and J.S. Pang (3) 299–312

Viscoelastic and viscoplastic media

On the numerical approximation of an evolution problem in nonlinear viscoelasticity, D.A. French and L.B. Wahlbin (1-2) 101-116

Wave motion

Discontinuous Galerkin finite element methods for second order
hyperbolic problems, C. Johnson

Hypersingular boundary integral equations for radiation and scattering
of elastic waves in three dimensions, Y. Liu and F.J. Rizzo

A space-time finite element method for the wave equation,
D.A. French

(1-2) 117-129

(1-2) 131-144

(1-2) 145-157

